U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT

Docket Number	
10020/30301	

Application Number	Filing Date	Examiner	Art Unit
10/723,953	November 26, 2003	Not Yet Assigned	1772

Invention Title
MULTILAYER ORGANIC PHOTODETECTORS WITH IMPROVED PERFORMANCE

Inventor(s)
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I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Date: 3/12/04

Signature: _____
Thomas F. Meagher (Reg. No. 29,831)

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicants hereby bring the following references to the attention of the Examiner. The references are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

2. A copy of each patent, publication or other information listed on the modified PTO form 1449 is enclosed, unless otherwise indicated.

3. It is believed that no fees are due in connection with this Information Disclosure Statement. However, should any fees be due, the Commissioner is authorized to charge Deposit Account No. 11-0600 for such fees. A duplicate copy of this communication is enclosed for charging purposes.

Dated: 3/12/04

By: _____
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449	DOCKET NO. 10020/30301	SERIAL NO. 10/723,953
	APPLICANT FORREST, et al.	
	FILING DATE November 26, 2003	GROUP 1772

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,013,982	January 11, 2000	Thompson et al.			
	6,087,196	July 11, 2000	Sturm et al.			
	6,097,147	August 1, 2000	Baldo et al.			
	6,294,398	September 25, 2001	Kim et al.			
	6,337,102	January 8, 2002	Forrest et al.			
	6,333,458	December 25, 2001	Forrest et al.			
	6,451,415	September 17, 2002	Forrest et al.			
	6,468,819	October 22, 2002	Kim et al.			
	6,580,027	June 17, 2003	Forrest et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		FORREST et al., "Active Optoelectronics Using Thin-Film Organic Semiconductors," IEEE J. Sel. Top. Quantum Electron. 6, 1072 (2000)
		PEUMANS et al., "Efficient Photon Harvesting at High Optical Intensities in Ultrathin Organic Double-Heterostructure Photovoltaic Diodes," Appl. Phys. Lett. 76, 3855 (2000)
		PEUMANS et al., "Small Molecular Weight Organic Thin-Film Photodetectors and Solar Cells," J. Appl. Phys. 93, 3693 (2003)
		TANG et al., "Two-Layer Organic Photovoltaic Cell," Appl. Phys. Lett. 48, 183 (1986)
		SHAH et al., "Photovoltaic Technology: The Case for Thin-Film Solar Cells," Science 285, 692 (1999)
		PEUMANS et al., "Very-high-efficiency Double-heterostructure Copper Phthalocyanine/C_{60} Photovoltaic cells," Appl. Phys. Lett. 79, 126 (2001)
		PEUMANS et al., "Efficient, High-Bandwidth Organic Multilayer Photodetectors," Appl. Phys. Lett. 76, 2650-52
		WELFORD et al., "High Collection Nonimaging Optics", Academic Press, pp. 172-175 (1989)
		PARKER, "Carrier Tunneling and Device Characteristics in Polymer Light-Emitting Diodes," J. Appl. Phys. 75, 1656 (1994)
		FOWLER et al., "Electron Emission in Intense Electric Fields," Proc. R. Soc. London Ser. A 119, 173 (1928)
		STRATTON, "Theory of Field Emission from Semiconductors," Phys. Rev. 125, 67, (1962)

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
		HILL et al., "Organic Semiconductor Heterointerfaces Containing Bathocuproine," J. Appl. Phys. 86, 2116 (1999)
		FORREST, "Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques," Chem. Rev. 97, 1793 (1997)
		HILL et al., "Organic Semiconductor Interfaces: Electronic Structure and Transport Properties," Appl. Surf. Sci. 166, 354 (2000)
		HILL et al., "Charge-Separation Energy in Films of π-Conjugated Organic Molecules," Chem. Phys. Lett. 327, 181 (2000)
		UENO et al., "Parabolic Dispersion and Effective Mass of Hot Electrons in Oriented Thin Films of Copper Phthalocyanine Determined by Means of Low-Energy-Electron Transmission," Phys. Rev. B 44, 6472 (1991)
		GU et al., "Transparent Organic Light Emitting Devices," Appl. Phys. Lett. 68, 2606 (1996)
		GU et al., "Transparent Stacked Organic Light Emitting Devices. I. Design Principles and Transparent Compound Electrodes," J. Appl. Phys. 86, 4067 (1999)
		DRECHSEL et al., "Organic Mip-diodes by p-doping of amorphous wide-gap semiconductors: CV andf impedance spectroscopy", Synth. Met. 127, 201-205 (2002)
		SHIROTA et al., "Multilayered Organic Electroluminescent device Using a Novel Starburst Molecule, 4,4',4"-tris(3-methylphenylphenylamino)triphenylamine, as a hole transport material," Appl. Phys. Lett. 65, 807 (1994)
		DJURISIC et al., "Indium-tin-oxide Surface Treatments: Influence on the performance of CuPc/C_{60} solar cells," J. Appl. Phys. 93, 5472 (2003)
		Shtein, et al., U.S. Patent Application No. 10/233,470, filed September 4, 2002, entitled "Process and Apparatus for Organic Vapor Jet Deposition".

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	